

Installation Instructions

SELECTRONIC® Proximity Integrated Faucet with optional Above-Deck Mixing

MODEL NUMBERS

705X.105	705X.205
705X.115	705X.215

- Flexible Selectronic Platform with Universal Sensor
- Easy installation. All electronics in the spout; nothing below deck
- User adjustable above-deck mixing uses ceramic disc valve for dependability & long life
- Mixing handle can be removed for one time temperature setting during installation

CAUTION: Use only American Standard supplied transformers and cable sets. Using non-AS supplied cables, or cutting, splicing or modifying any components will void the warranty.

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M965654 Rev. 1.2 (2/15)

Certified to comply with ASME A112.18.1
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American Standard

NOTE TO INSTALLER: Please give this manual to the customer after installation.

To learn more about American Standard Selectronic® Products visit our website at: www.americanstandard-us.com
or e-mail us at: CRTTEAM@americanstandard.com

For Parts, Service, Warranty or other Assistance,
please call (844) CRT-TEAM / (844) 278-8326 (In Canada: 1-800-387-0369)
(In Toronto Area only: 1-905-306-1093)

American Standard
CRT
Certified Response Technician

M965654 Rev. 1.2 (2/15)

Thank you for selecting American-Standard...the benchmark of fine quality for over 100 years. To ensure that your installation proceeds smoothly--please read these instructions carefully before you begin.

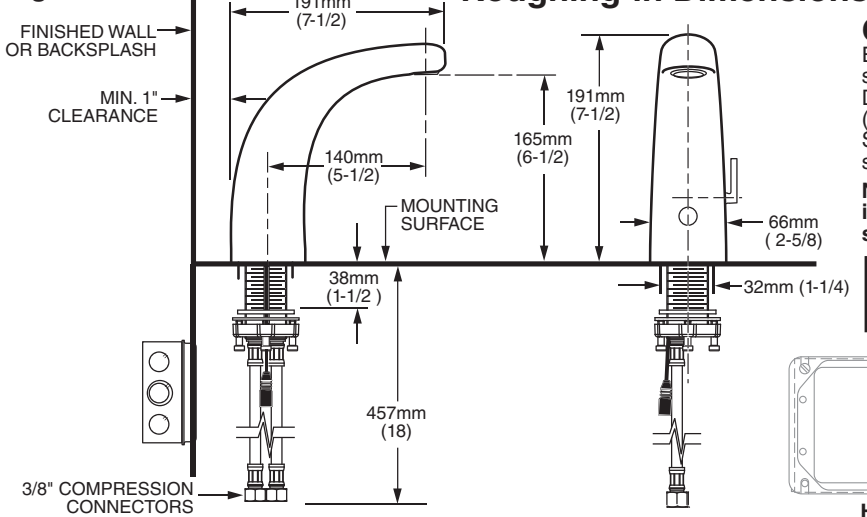
UNPACKING

All American Standard Faucets Are Water Tested At Our Factory. Some Residual Water May Remain In The Faucet During Shipping.

The illustration below shows the fitting and all loose items after they have been removed from the carton. Some items may be packaged partially assembled to other items.

- | | |
|---------------------------------|---|
| 1. Installation Instructions | 6c. AC Plug-In Power Supply |
| 2. Spout Assembly (less mixing) | 6d. AC Hard-Wire Power Transformer |
| 2a. Spout Assembly (mixing) | 7. Y-Adapter |
| 3. Mounting Kit | 8. 10 ft. Extension |
| 4. Electrical Enclosure | 9. 4" Deck plate (optional, must be ordered separately) |
| 5. Supply Hose | 10. Mixing Valve (optional, must be ordered separately) |
| 6a. DC Long Life Power Pack | 11. Connector Housing |
| 6b. DC Standard Battery | 12. Filter Screen |

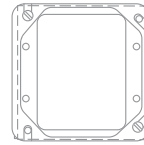
<p>How to order the Selectronic Product</p> <p>1. Choose Power Supply</p> <p>2. Choose Desired Spout</p> <p>Base Product</p> <ul style="list-style-type: none"> • Single Hole Sink • Single Inlet <p>Deck Plate (optional)</p> <ul style="list-style-type: none"> • 1 and 3 Hole Sinks • Single Inlet <p>Mixing Valve (optional)</p> <ul style="list-style-type: none"> • 1 and 3 Hole Sinks • Hot and Cold Inlets 	<p>Base Product</p> <p>PRODUCT No.s 705X.105 705X.115</p> <p>DO NOT REMOVE PROTECTIVE FILM FROM SENSOR EYE UNTIL INSTALLATION IS COMPLETE.</p> <p>PRODUCT No.s 705X.205 705X.215</p> <p>DO NOT REMOVE PROTECTIVE FILM FROM SENSOR EYE UNTIL INSTALLATION IS COMPLETE.</p>	<p>DC Long Life Power Pack 7053. Series</p>	<p>DC Standard Battery 7055. Series</p>	<p>AC Plug-in 7056. Series</p>	<p>AC Hardwire 7059. Series</p>	<p>AC Multi 7057. Series</p>
	<p>Deck Plate</p> <p>705P400</p>	<p>Mixing Valve</p> <p>605XTMV1070</p>				

Fig. 1**GENERAL DESCRIPTION:**

Electronic faucet with proximity operation. Vandal resistant solid brass construction single post mounting. Operates on DC (battery/power pack) or AC permanent power (plug-in/hardwire). In-line strainer for solenoid is integral. Single inlet 3/8 compression, built-in check valves, and flexible stainless steel 16-1/4" reach inlet hose for spout connection.

Note: All plumbing and electrical wiring must be installed in accordance with applicable codes, regulations and standards.

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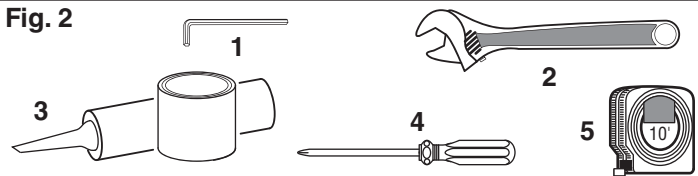


RECOMMENDED ELECTRICAL BOX OR EQUIVALENT BY OTHERS
4" (102mm) SQ. X 3-1/2" (89mm) DEEP ELECTRICAL BOX
Hubbel-RACO #256 OR EQUAL (BY OTHERS).

HARD-WIRED AND MULTI AC 10' MAX. CABLE LENGTH

TOOLS REQUIRED; Fig. 2

- | | |
|-------------------------------|------------------------|
| 1 Hex Wrench (Included) | 4 Phillips Screwdriver |
| 2 Adjustable Wrench | 5 Tape Measure |
| 3 Plumbers' Putty or Caulking | |

Fig. 2**INSTALLATION****1 SPOUT ASSEMBLY INSTALALTION; Fig. 1**

CAUTION Turn off hot and cold water supplies before beginning

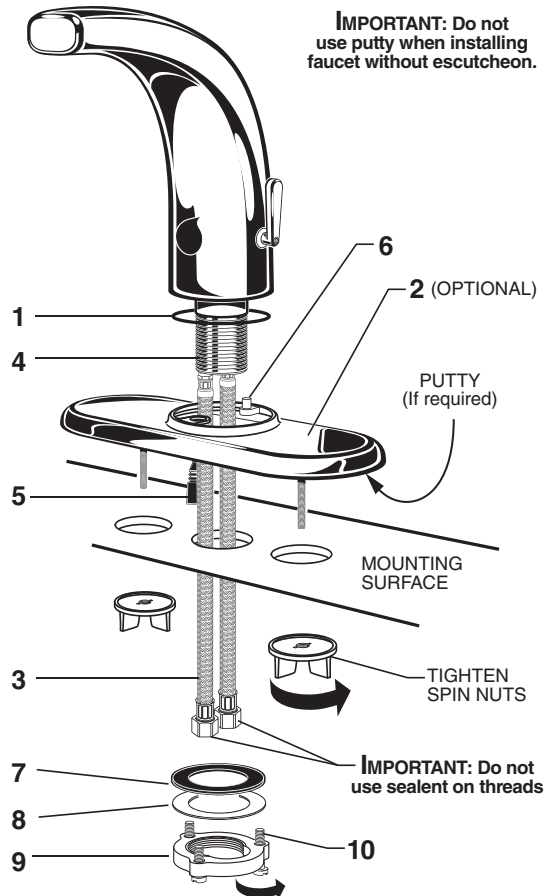
1. Make sure O-RING (1) is installed in spout base. If installing ESCUTCHEON (2) (optional): Apply a bead of putty to bottom edge of ESCUTCHEON PUTTY PLATE (2).

IMPORTANT: Do not use putty when installing faucet without escutcheon.

2. Insert supply HOSES (3), SHANK (4) and SENSOR CABLE (5) (if equipped) through hole in ESCUTCHEON with PUTTY PLATE (2) and mounting surface. (Make sure PIN (6) is in back).

3. Assemble RUBBER WASHER (7), BRASS WASHER (8) and THREADED LOCKNUT (9) onto SHANK (4) from underside of sink or mounting surface. Hand tighten LOCKNUT (9).

4. Use a screwdriver to tighten SCREWS (10) on LOCKNUT (9). Work your way around LOCKNUT (9), tightening the screws slightly each time until all are snug to ensure even pressure.

Fig. 1

ELECTRICAL INSTALLATION

Product	Page
DC Long Life Power Pack (7053. Series)	3
DC Standard Battery (7055. Series)	3
AC Plug-in (7056. Series)	3
AC Hardwire (7059. Series)	3
AC Multi Hook-up (7057. Series)	4

A DC VERSIONS (LONG LIFE POWER PACK & STANDARD BATTERY; Fig. 1

Important: All product with Standard Battery come with electrical connections preassembled (at the factory). No further action necessary.

LONG LIFE POWER PACK VERSION;

1. Connect LONG LIFE POWER PACK (1) to SENSOR CABLE (2).
2. Secure the connections by installing into CONNECTOR HOUSING (3) as shown. Rotate the END CAPS (4) to secure the connection within the CONNECTOR HOUSING (3).

NOTE: The LONG LIFE POWER PACK (1) will hang underneath the countertop/sink. Connection is secured by CONNECTOR HOUSING (3).

B AC VERSIONS (HARDWIRE / PLUG-IN); Fig. 2

Important: Turn off power to outlet or electrical box.

1. Connect PLUG-IN POWER SUPPLY (1) or 10' EXTENSION (2) if using HARDWIRE POWER SUPPLY (7) to single terminal of Y-ADAPTER (3).
2. Connect SENSOR CABLE (4) to either of the available terminals of the Y-ADAPTER (3).
3. Connect PLUG-IN POWER SUPPLY (5) to wall outlet, or connect other end of 10' EXTENSION (2) to the HARDWIRE POWER SUPPLY (7).

FOR HARDWIRE VERSION;

4. Contractor to supply ELECTRICAL BOX (6).
5. Connect White and Black power connections to POWER SUPPLY (7). Mount POWER SUPPLY (7) into ELECTRICAL BOX (6).

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Fig. 1

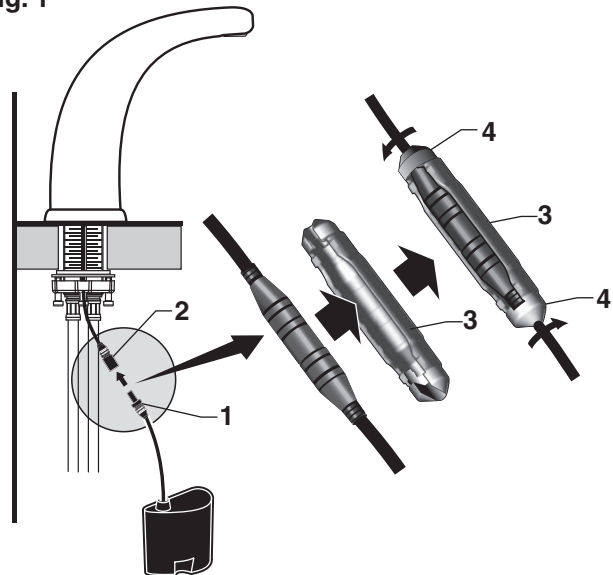


Fig. 2

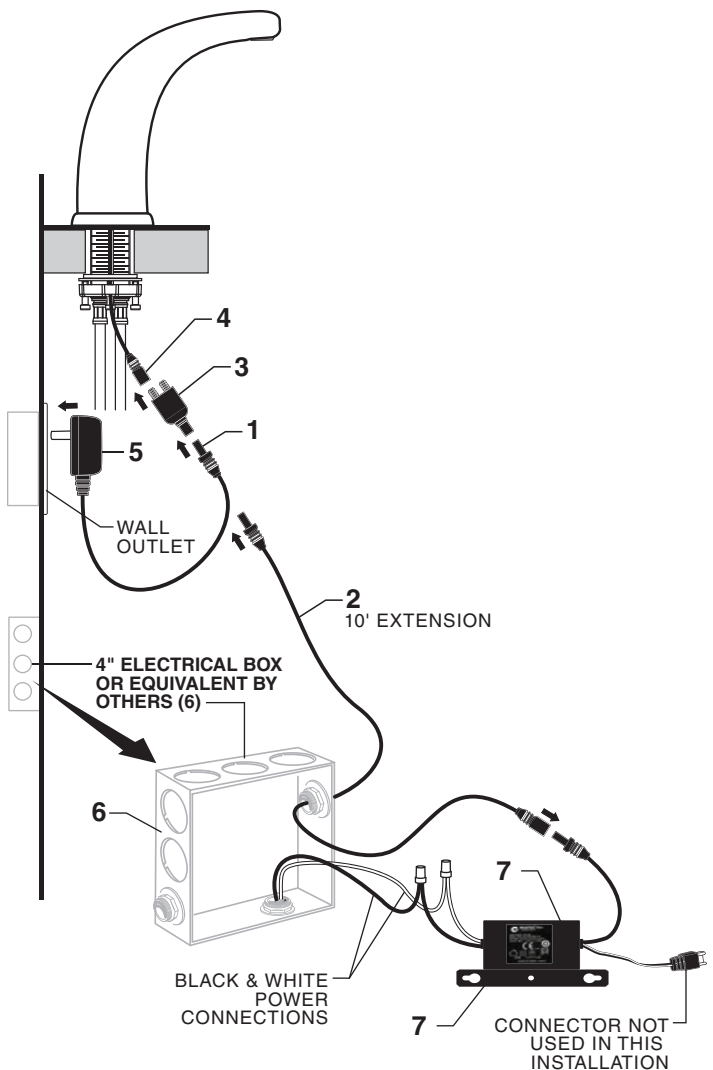
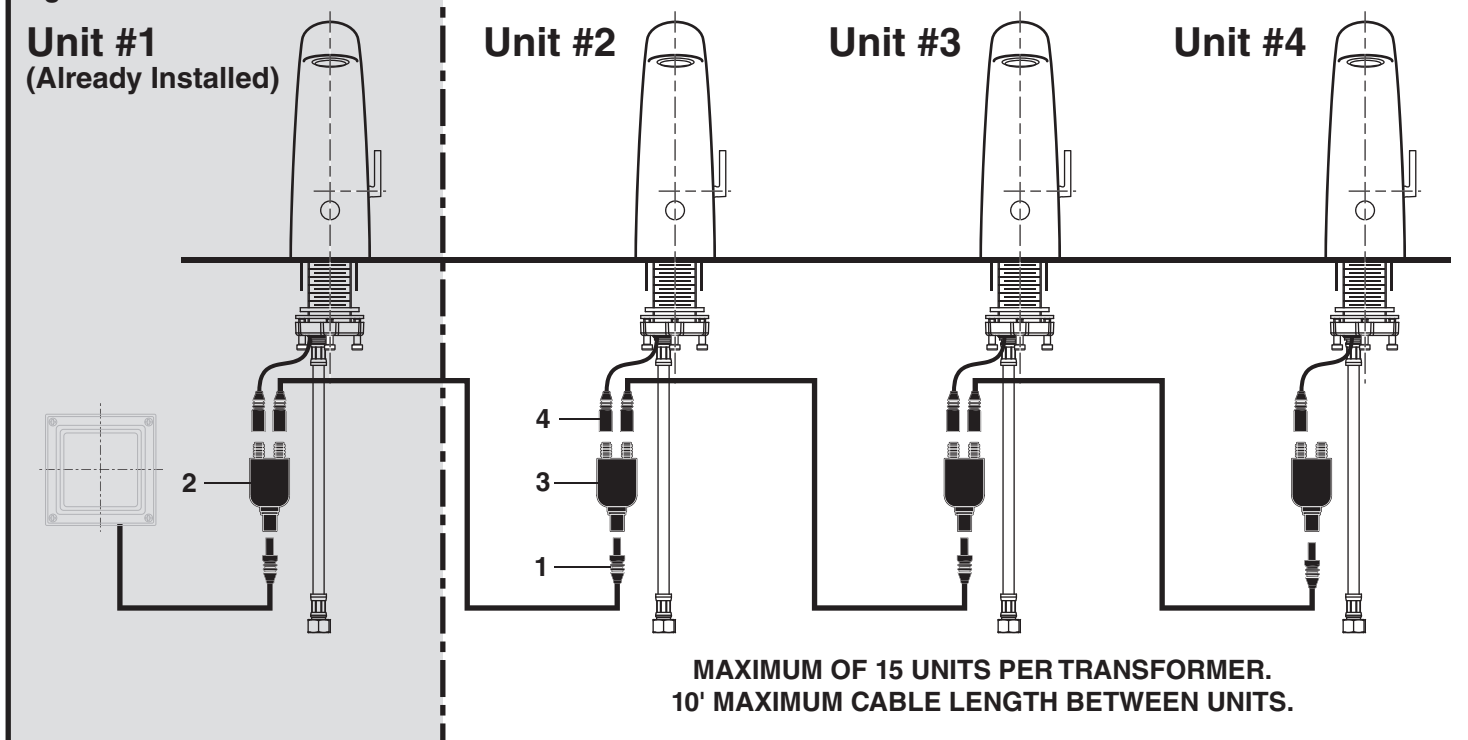


Fig. 3



❏ MULTI-AC VERSION (DAISY-CHAIN); Fig. 3

Important: *Disconnect the first unit's Y-Adapter from power supply before making daisy-chain connections.*

Note: *For Unit #1 electrical instructions, refer to section B (page 3).
For subsequent Units, refer to instructions below...*

1. Connect one end of the 10' EXTENSION (1) to the available terminal of the pervious unit's Y-ADAPTER (2), and the other end to the single terminal of the current unit's Y-ADAPTER (3).
2. Connect SENSOR CABLE (4) to either of the two available terminals of Y-ADAPTER (3).
3. Repeat Steps above for each additional **Unit**, for a **Max. of 15 Units** on one AC POWER SUPPLY.

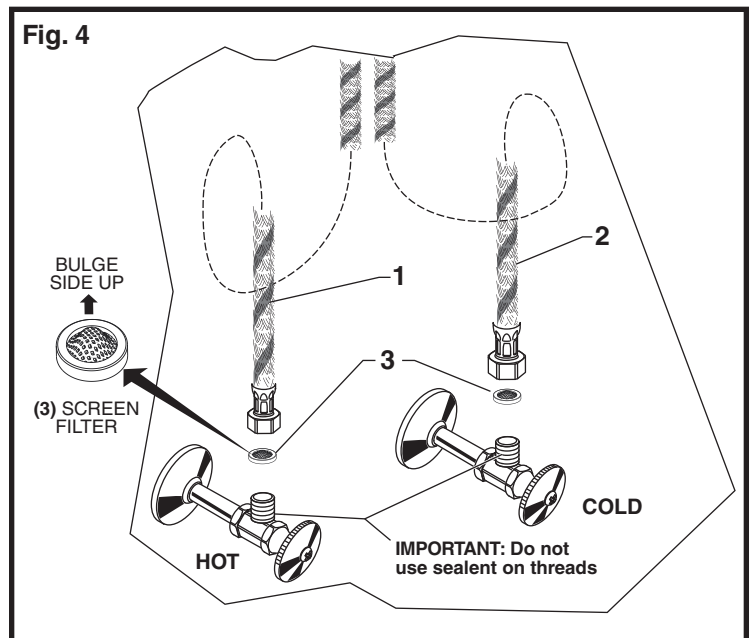
D MAKE WATER SUPPLY CONNECTIONS; Fig. 4

1. Turn off hot and cold water supplies before beginning.
2. Place each SCREEN FILTER (3) on each wall supply outlet. Be sure that SCREEN FILTER (3) is inserted in the correct direction. (See Illustration)
3. Connect left supply (Marked with a Red Stripe) to Hot FLEXIBLE SUPPLY (1) and right supply (Marked with Blue Stripe) to Cold FLEXIBLE SUPPLY (2) supply. Use adjustable wrench to tighten connections. Do not over tighten.
4. Faucet supplies are 18" long from faucet base.

Note; If additional supply length is required, installer must purchase those parts separately.

Important; If SUPPLY HOSES (1, 2) are too long, loop as illustrated to avoid kinking.

Fig. 4



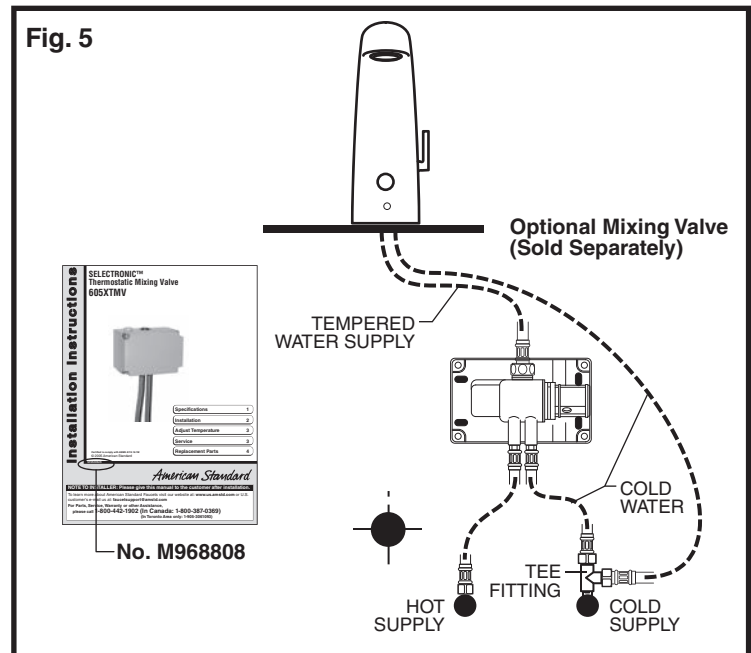
E INSTALL OPTIONAL MIXING VALVE; Fig. 5

Note: An optional Thermostatic Mixing Valve may be installed (sold separately) on faucets 705X.205 & 705X.215 in addition to Above Deck Mixing valve. See setup diagram Fig. 5.

Tee fitting is not supplied with Faucet or Thermostatic Mixing valve and must be purchased separately. If faucet inlet hoses will not reach water supplies, longer hoses must be purchased separately.

For complete detailed installation and operating instructions, see installations instructions (No. M968808) supplied with Thermostatic Mixing Valve.

Fig. 5



MAINTENANCE

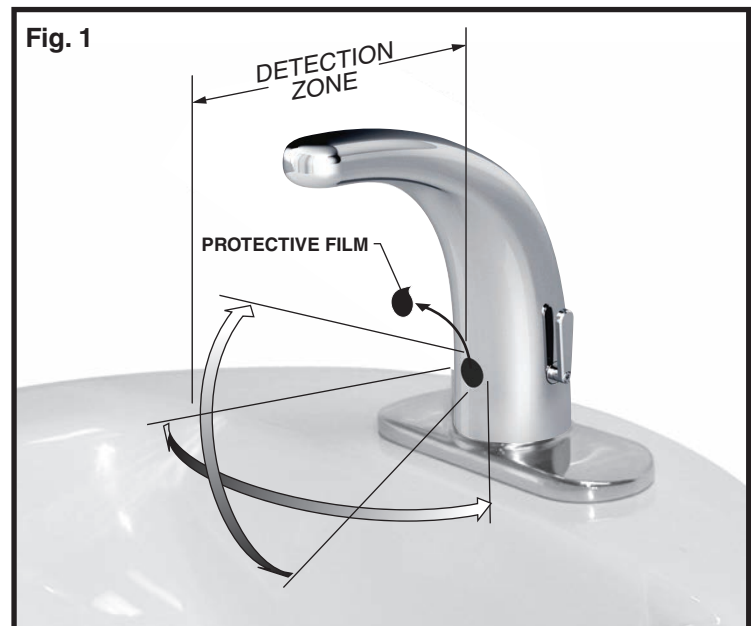
A HAND WASH SENSOR OPERATION; Fig. 1

REMOVE PROTECTIVE FILM FROM SENSOR EYE WHEN INSTALLATION IS COMPLETE.

When the Sensor detects a user, the water immediately starts to flow. Water flow will stop 2 seconds after user is out of sensor range. The off delay allows the user to comfortably move his hands without the flow cycling on to off. As a precaution, a safety timer will turn off the water, after the sensor has been blocked for 59 seconds. The water will stay off until the blockage is removed from the detection zone.

Detection Zone: 2" - 10" (50.8mm - 254mm)
Default: Set at Factory 6" (152.4mm)

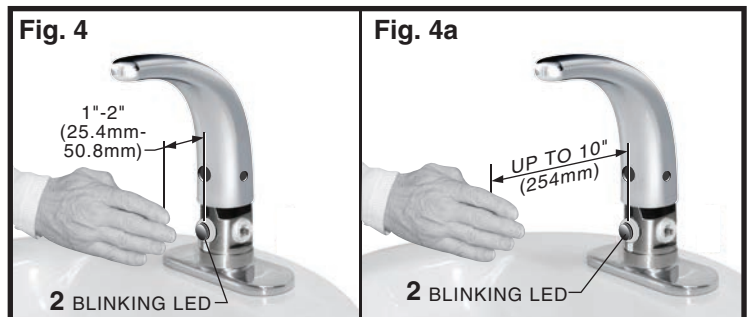
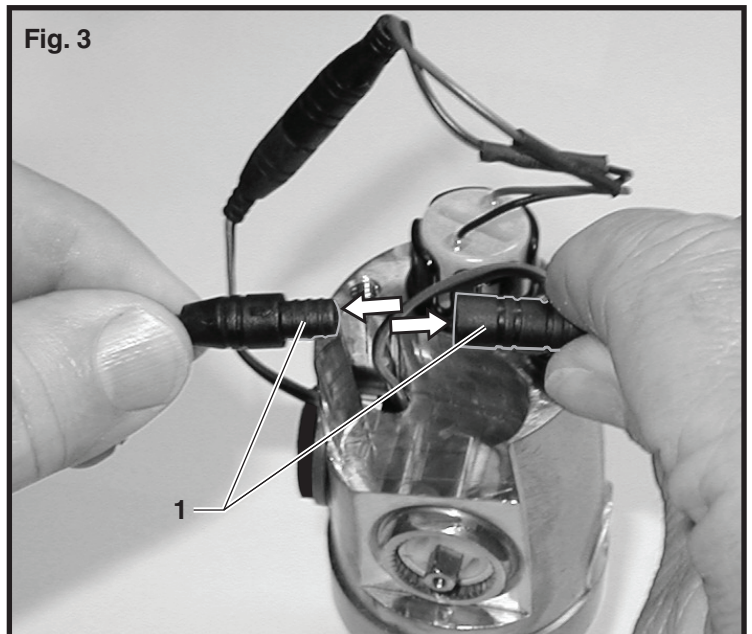
Fig. 1



B CHANGE SENSOR RANGE; (Factory set at 6") Fig. 2, 3, 4, & 4a

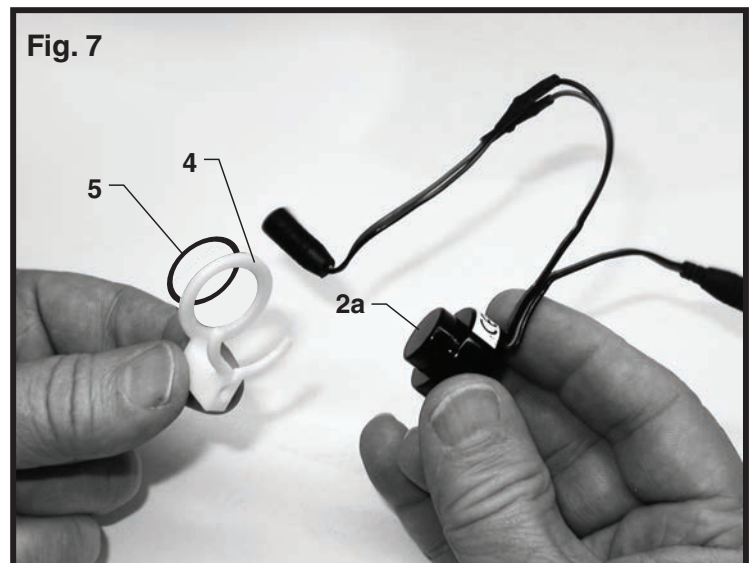
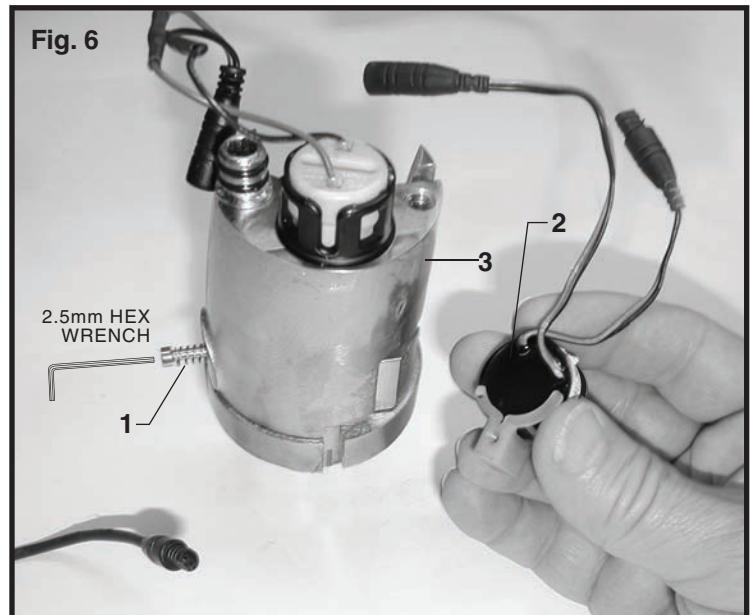
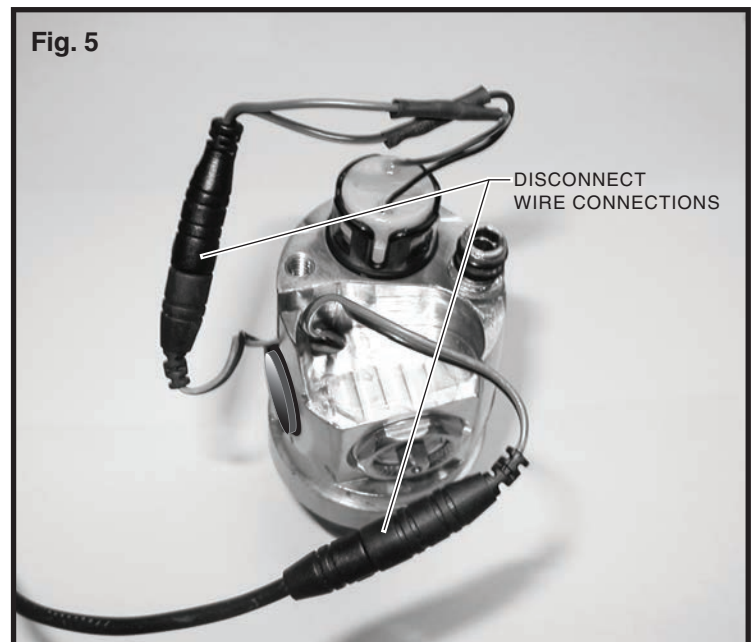
1. Remove the FAUCET COVER (1) by unthreading the LEVER SCREW (2) and pulling off the LEVER HANDLE (3). Unthread the FAUCET COVER SCREW (4) at the back of the FAUCET. Pull FAUCET COVER (1) up and off. **Fig. 2.**
2. Disconnect the BLACK POWER SUPPLY CONNECTOR (1) and reconnect. **Fig. 3.**
3. While the SENSOR CONTROL LED (2) is blinking slowly, place your hand 1 - 2 in. (25.4-50.8mm) in front of the sensor. **Fig. 4.**
4. When the LED stops blinking and stays "ON", move your hand to the desired position and hold in place until the LED begins to blink again. **Fig. 4a.**
5. Once the SENSOR CONTROL LED (2) begins to blink again, remove your hand from the detection zone. When the flashing stops, the detection distance is set.
6. Replace FAUCET COVER (1) and LEVER HANDLE (3). Install LEVER HANDLE SCREW (2), FAUCET COVER SCREW (4) and tighten. **Fig. 2.**

Note: The LEVER HANDLE (3) can be removed to prevent users from adjusting the water temperature. Replace the LEVER HANDLE (3) with PLUG BUTTON (5) as shown. Fig. 2.



REPLACE SENSOR; Fig. 5, 6 & 7.

1. Remove the FAUCET COVER (1) by unthreading the LEVER SCREW (2) and pulling off the LEVER HANDLE (3). Unthread the FAUCET COVER SCREW (4) at the back of the FAUCET. Pull FAUCET COVER (1) up and off. See **Fig. 2** in this section.
2. Disconnect both ELECTRICAL CONNECTIONS. **Fig. 5.**
3. Untighten SENSOR SCREW (1) with a 2.5mm HEX WRENCH. Remove SENSOR ASSEMBLY (2) from FAUCET BODY (3). Remove O-RING (5). Remove SENSOR (2a) from CARRIER (4) and replace with new SENSOR (2a). Replace O-RING (5). Install SENSOR ASSEMBLY (2) into FAUCET BODY (3). Tighten SENSOR SCREW (1). **Fig. 6, 7.**
4. Replace FAUCET COVER (1) and LEVER HANDLE (3). Install LEVER HANDLE SCREW (2), FAUCET COVER SCREW (4) and tighten. See **Fig. 2** in this section.

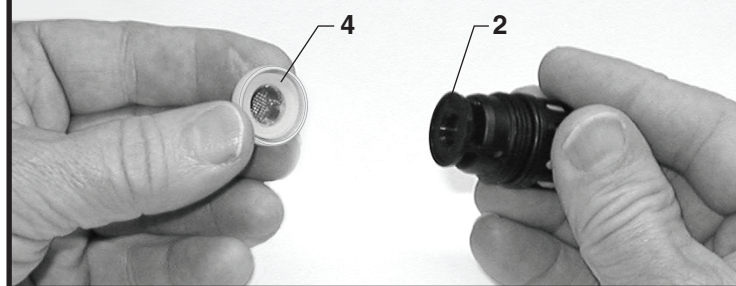


D CLEAN FILTER SCREEN ON SOLENOID VALVE; Fig. 8 & 9

1. Remove the FAUCET COVER (1) by unthreading the LEVER SCREW (2) and pulling off the LEVER HANDLE (3). Unthread the FAUCET COVER SCREW (4) at the back of the FAUCET. Pull FAUCET COVER (1) up and off. See **Fig. 2** in this section.
2. Disconnect SENSOR CABLE (1) from SOLENOID CABLE (2). **Fig. 8.**
3. Unthread SOLENOID VALVE (2) from VALVE BODY (3). **Fig. 9.**
4. Remove FILTER SCREEN (4) from base of SOLENOID VALVE (2). Clean and replace. **Fig. 9.**
5. Thread SOLENOID VALVE (2) into VALVE BODY (3) and hand tighten. Reconnect SENSOR and SOLENOID CABLES (1). **Fig. 8.**
6. Replace FAUCET COVER (1) and LEVER HANDLE (3). Install LEVER HANDLE SCREW (2), FAUCET COVER SCREW (4) and tighten. See **Fig. 2** in this section.



Fig. 9



E REPLACE DIVERTER CARTRIDGE; Fig. 10 & 11

1. Remove the FAUCET COVER (1) by unthreading the LEVER SCREW (2) and pulling off the LEVER HANDLE (3). Unthread the FAUCET COVER SCREW (4) at the back of the FAUCET. Pull FAUCET COVER (1) up and off. See **Fig. 2** in this section.
2. Pull out LIMITER STOP (1) from the VALVE STEM (2). Unthread COLLAR NUT (3) from VALVE BODY (4). **Fig. 10.**
3. Pull DIVERTER CARTRIDGE (5) out and replace with new DIVERTER CARTRIDGE (5).
NOTE: Make sure the two ALIGNMENT PINS (6) in the base of the DIVERTER CARTRIDGE (5) are facing upward. **Fig. 11.**
4. Replace FAUCET COVER (1) and LEVER HANDLE (3). Install LEVER HANDLE SCREW (2), FAUCET COVER SCREW (4) and tighten. See **Fig. 2** in this section.

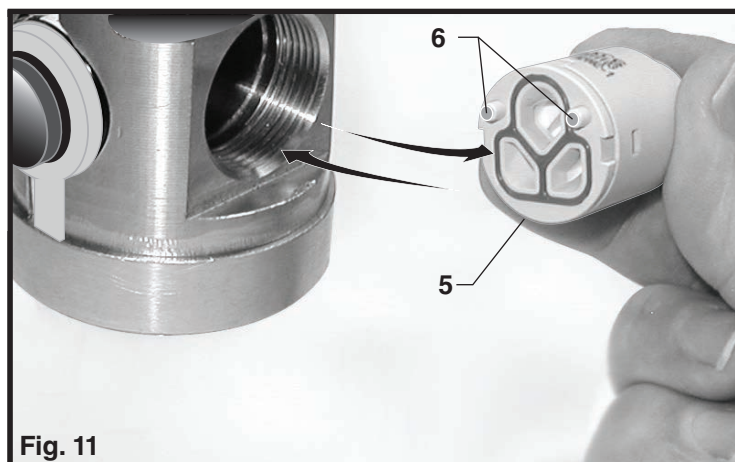
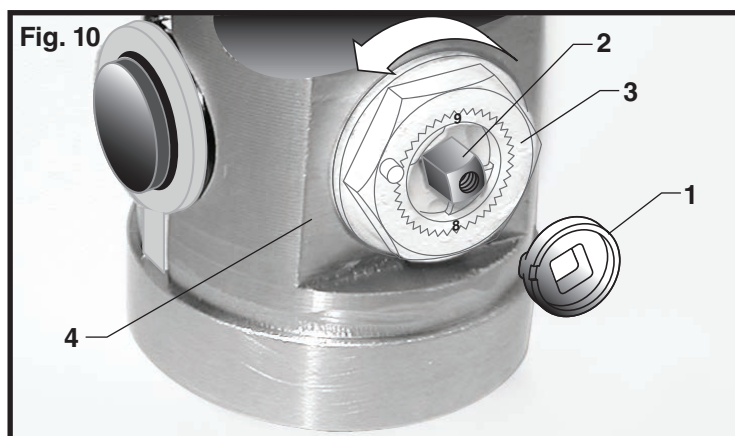
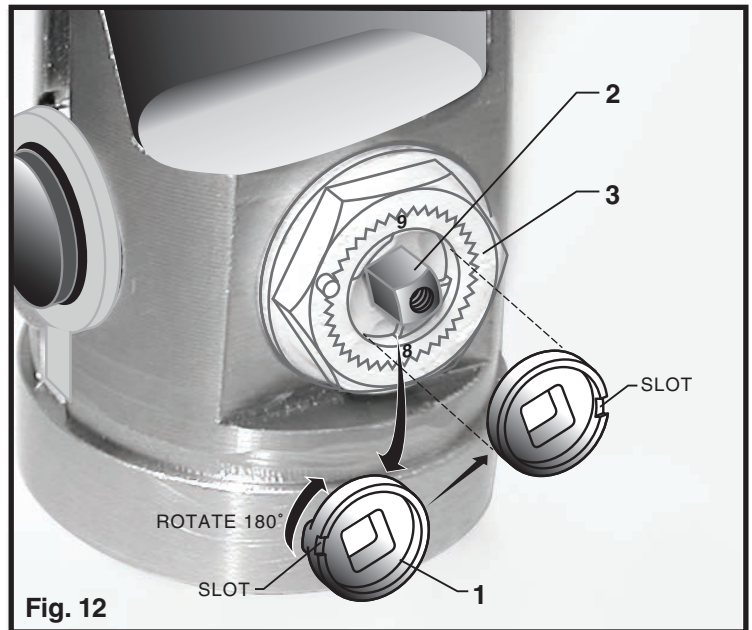


Fig. 11

F CHANGE HOT LIMIT SETTING FROM 95% TO 85%; Fig. 12

1. Remove the FAUCET COVER (1) by unthreading the LEVER SCREW (2) and pulling off the LEVER HANDLE (3). Unthread the FAUCET COVER SCREW (4) at the back of the FAUCET. Pull FAUCET COVER (1) up and off. See **Fig. 2** in this section.
2. Replace LEVER HANDLE and rotate counter-clockwise to its stop position (100% cold). Remove HANDLE.
3. Pull out LIMITER STOP (1) from the VALVE STEM (2).
4. Rotate LIMITER STOP (1) 180 degrees and insert back onto VALVE STEM (2).
5. Replace FAUCET COVER (1) and LEVER HANDLE (3). Install LEVER HANDLE SCREW (2), FAUCET COVER SCREW (4) and tighten. See **Fig. 2** in this section.



G GENERAL CLEANING; Fig. 13

1. Only use a damp, soft cloth to clean the spout and the sensor.
2. For tougher dirt, use a soft cloth with diluted dish washing detergent. Wipe the area using a wet cloth and dry using a soft cloth.

CAUTION

**Do not scratch the sensor when cleaning.
Avoid using any abrasives or harsh detergents
or chemicals.**



FAQ'S

Q: How will I know if the battery needs to be replaced?

A: Valve will not open and sensor will continuously blink 2 times interrupted by a pause for up to 7 days.

Q: Why has the flow rate of the faucet reduced significantly?

A: The filter assembly, flow regulator or areator/spray may be clogged. Check and clean. Refer to Start-up/Maintenance, sections C, D and E.

Q: Why doesn't the water flow out of faucet when I'm within the sensor detection zone?

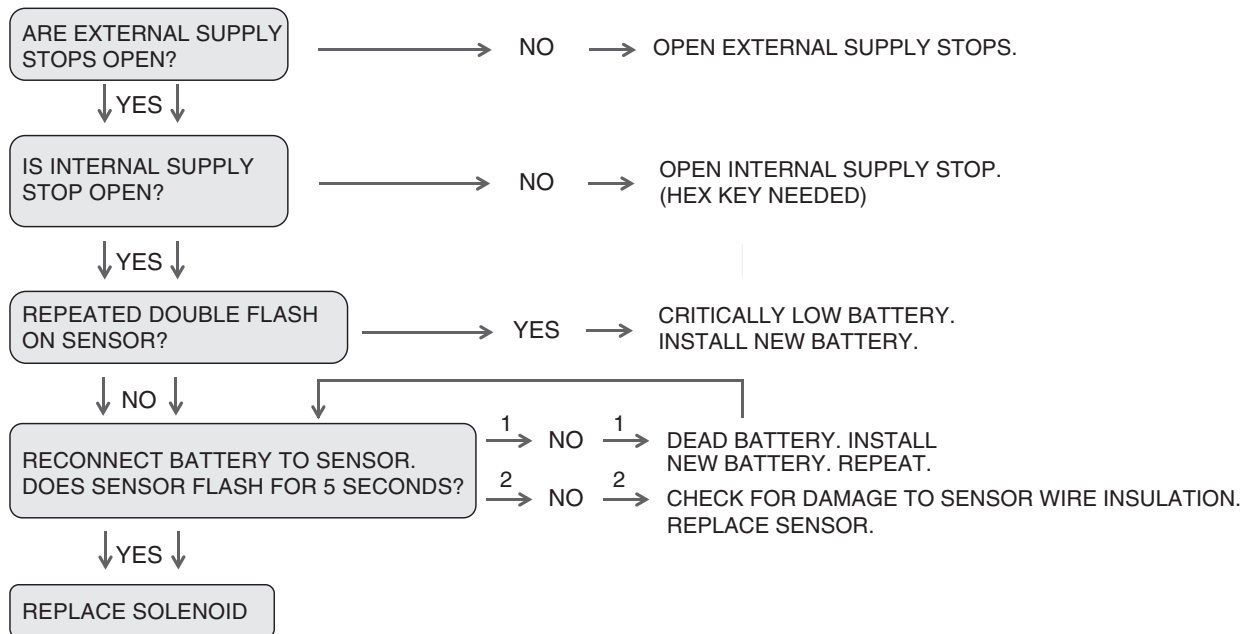
A: Battery may need replacement. Check. If sensor continuously blinks 2 times interrupted by pause, replace battery or call (844) CRT-TEAM / (844) 278-8326.

Q: What is the normal operating pressure range?

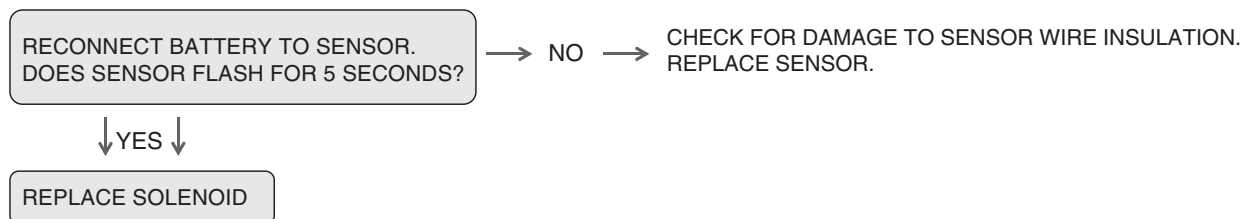
A: Faucet will operate with supply pressures ranging from 20-80 psi.

TROUBLESHOOTING FLOW CHARTS

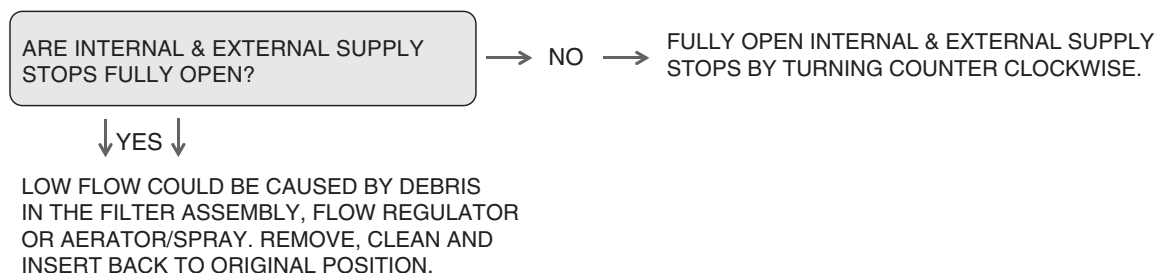
UNIT DOES NOT FUNCTION



WATER IS CONTINUOUSLY RUNNING



LOW FLOW ISSUES



HOT LINE FOR HELP
For toll-free information and answers to your questions, call:

(844) CRT-TEAM / (844) 278-8326
Weekdays 8:00 a.m. to 6:00 p.m. EST
IN MEXICO 01-800-839-1200
IN CANADA 1-800-387-0369 (TORONTO 1-905-306-1093)
Weekdays 8:00 a.m. to 7:00 p.m. EST

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